#### U.S. Geological Survey

## **GCP Working Group Update**

SWAMP Meeting April 4, 1997

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## **Topics**

- Review of Previous Activities
- Consolidated Strategy for GCP Selection
- Candidate Base Imagery and Positional Information
- Remaining Tasks and Next Steps

### Previous Activities

- Requirements Definition
- GCP Characteristics
- Strategy Convergence

### Consolidated Strategy for GCP Selection

- Orbital Track & Corridor-based GCPs
- Site and Region-based GCPs

## Candidate Base Imagery & Positional Information

- Base Imagery for Image Chips
  - USGS Digital Orthophoto Quads (DOQ)
  - Other Cadastral Orthophotos
  - NIMA Controlled Image Base (CIB) Imagery (SPOT)
  - Landsat 7 ETM+
  - ASTER
  - Landsat TM (MSS)

(cont.)

# Candidate Base Imagery & Positional Information (cont.)

- Positional Information Sources
  - USGS Control Point Data Bases
  - USGS DOQs
  - USGS 1:24,000 Scale Maps
  - GPS Measurements
  - NIMA Control Point Data Bases
  - NIMA CIBs
  - 1:50,000 or Larger Scale Maps (NIMA, Foreign)

## Remaining Tasks

- Complete the identification & selection of physical ground features
  - Straightforward for U.S. GCPs
  - More complicated for foreign GCPs
- Finish identifying & obtain best imagery for creating image chips
  - Again, U.S. easier than foreign areas
  - Access & funding issues likely most difficult
- Finish identifying & obtain best positional information for GCPs
- Create the GCP chips

## Next Steps

- Convene a meeting of the Working Group in the near future
  - Select ground features, imagery, & positional information of U.S. GCPs
  - Assess the foreign GCP situation & define best approaches for meeting requirements
  - Prepare proposal, with roles & responsibilities defined & costs estimated, for producing the U.S. GCPs and for implementing the defined foreign GCP approach(es)
- In the meantime, USGS/LPDAAC will complete assessment of existence & availability of necessary maps, ground control point data bases, browse imagery, & chip imagery, particularly for foreign areas

### Next Steps (cont.)

USGS/LPDAAC also will pursue development of necessary agreements with NIMA to allow use of NIMA imagery & information in GCP development